



**GAYLORD FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT: 177

ENTRY YEAR: 2010
Compartment Acreage: 1,978
County: Cheboygan

Revision Date: April 29, 2008

Stand Examiner: Dan Heckman

Legal Description: T35N R02W Sections 1, 2, 11, 12

Management Goals: To provide for the protection, integrated management and responsible use of a healthy, productive and undiminished forest resource base for the social, recreational, environmental and economic benefit of the State of Michigan.

Soil and Topography: The DeTour – Brevort Association dominates the west ½ of this compartment. This association is nearly level, somewhat poorly drained to poorly drained, having both loamy and sandy soils. The Rubicon – East Lake Association dominates the East ½ of the compartment. This association contains nearly level and undulating, excessively drained and somewhat excessively drained sandy soils.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State land bounds this compartment to the north and south, while the east and west boundaries are adjacent to private land in most areas. There is one isolated state owned 40 acre parcel that is nominated for disposal.

Unique, Natural Features:

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Watershed and Fisheries Considerations: This compartment contains a portion of Scott Creek, a tributary to Mullett Lake. Scott Creek has Type 1 trout stream regulations. A buffer (no-clear cut) of 300 feet should be maintained along Scott Creek.

Wildlife Habitat Considerations: This compartment lies east of Indian River and is on the east side of Mullet Lake. It contains both upland and lowland areas that benefit a multitude of wildlife species, including bear, bobcat, coyote, grouse, woodcock, snowshoe hare, deer, turkey, and elk. The upland areas consist mostly of a mix of pine, oak, and aspen types. There is a good diversity of aspen age classes in this compartment. Stands 4, 31, 32, 39, 52, 54 and 56 are going to be clear cut to maintain this diversity. Large wolfy oaks are going to be left in the stands to provide mast production. Stands 4 and 31 should regenerate to a nice mix of pine, oak, and aspen. Stand 7 is going to be clear cut and then scarified to encourage jack pine reproduction. Stand 42 is going to be left for structural diversity and potential hawk nesting area. Stand 20 is an opening that contains multiple apple trees that will be pruned to increase soft mast production.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel and ice-contact sand and gravel. The glacial drift thickness varies between 100 and 400 feet. The Devonian Traverse Group subcrops below the glacial drift. The Traverse is used for stone and cement products. Gravel pits are located in the area, and there is excellent potential on the uplands. The nearest oil and gas production, the Antrim Shale gas play, is located 15 miles to the southwest. The Antrim Shale is absent in this area and there is no known oil and gas potential.

Vehicle Access: There are several seasonal county and dirt roads which lead in to and/or near this compartment.

Survey Needs:

Recreational Facilities and Opportunities: There are no designated trails or recreational sites in this compartment.

Fire Protection:

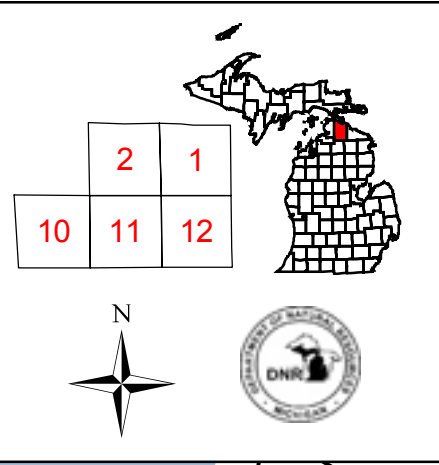
Additional Compartment Information:

- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Cover Type by Management Objective**
 - ◆ **Compartment Volume Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand numbers, cover types**
 - ◆ **Proposed treatments**
 - ◆ **Proposed road access system**
 - ◆ **Suggested potential old growth**

Cover Type & Treatment Map

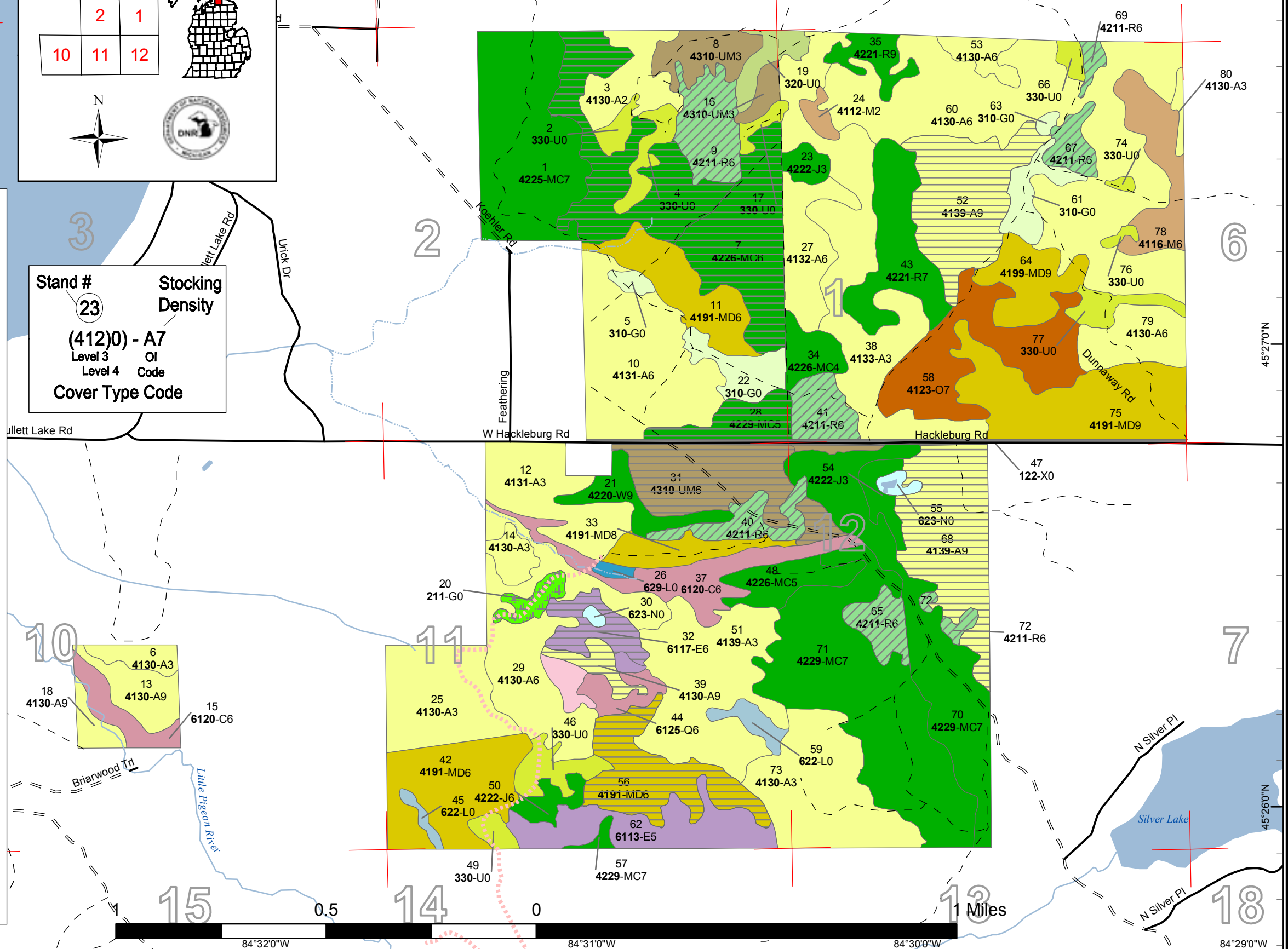
Compartment 177
 T35N, R02W, Sec. 1, 2, 10-12
 County: Cheboygan
 Unit: Gaylord
 YOY: 2010
 Acres: 1,978 GIS Calculated
 Stand Examiner: Daniel Heckman
 Map Revised: 6/05/2008
 Map Phase: Review



Legend

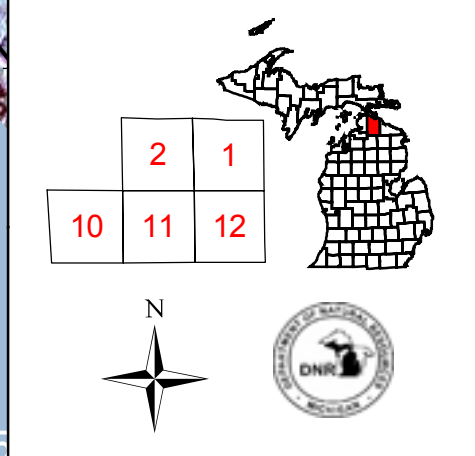
- Miris Corners
 - Paved Road
 - Gravel Road
 - Poor Dirt Road
 - Closed Roads
 - Intermittent Stream/Drain
 - Stream
 - Lakes and Rivers All
- Forest Stands**
- LVL3COVER
- 411 - Northern Hardwood
 - 412 - Oak Types
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 430 - Upland Mixed Forest
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
- Non-Forest Stands**
- LVL3COVER
- 122 - Road/Parking Lot
 - 211 - Cropland
 - 310 - Herbaceous Openland
 - 320 - Upland Shrub
 - 330 - Low-Density Trees
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland
 - 629 - Mixed non-forested wetland
- Clearcut
 Clearcut with Reserves
 Systematic Thinning
 Other Treatment - See Comments

Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



Stand Boundary Map

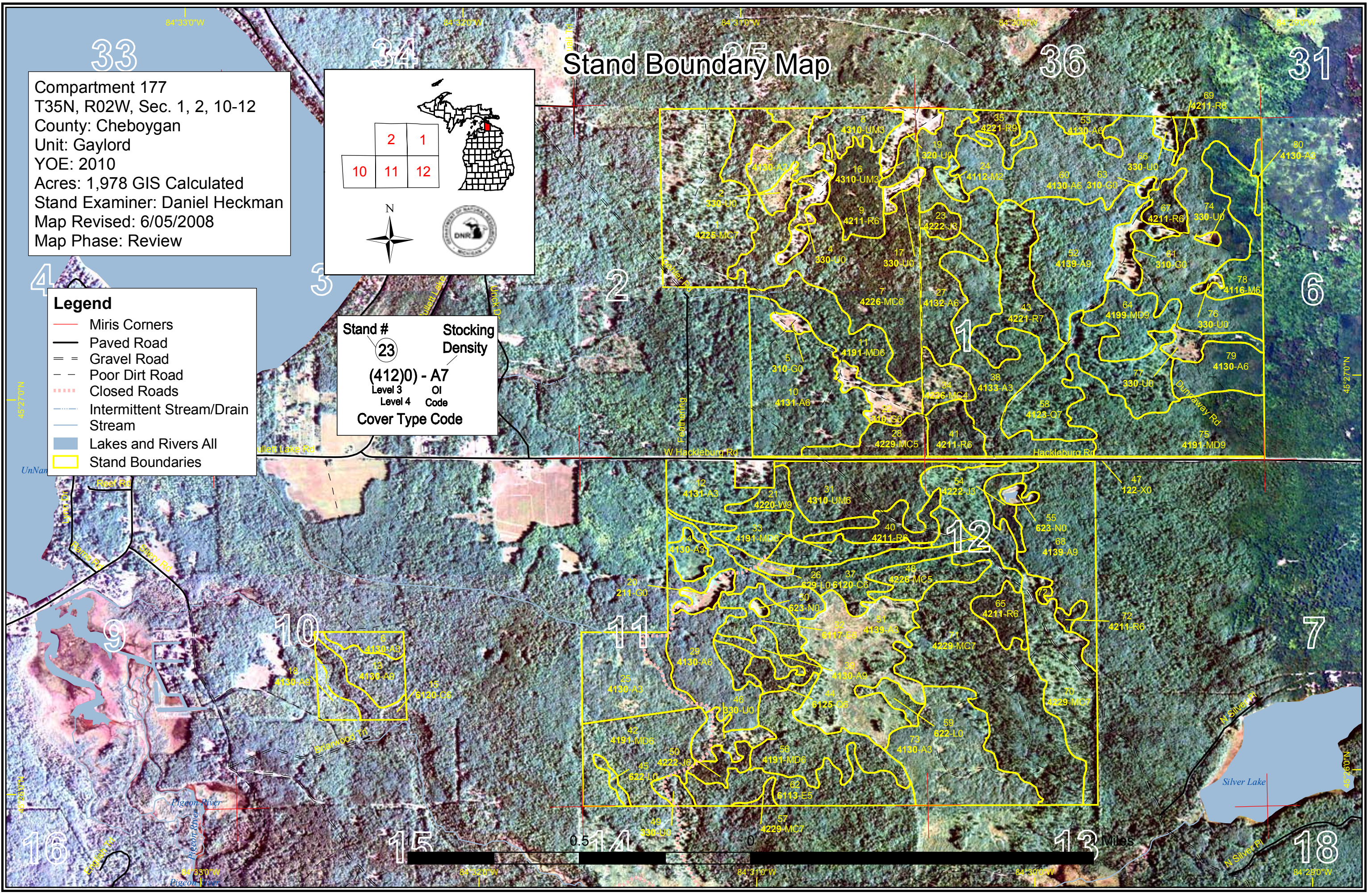
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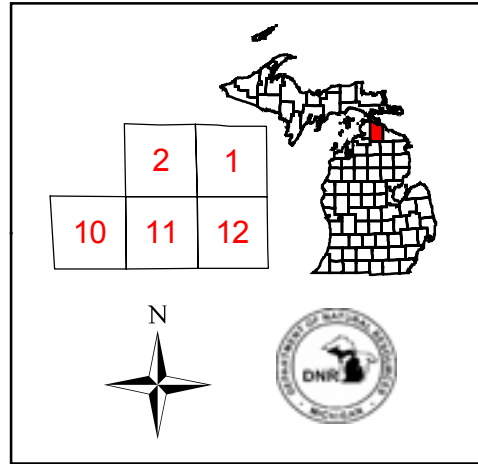
Legend

- Miris Corners
- Paved Road
- Gravel Road
- Poor Dirt Road
- Closed Roads
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers All
- Stand Boundaries



Dedicated & Proposed Special Conservation Area Map

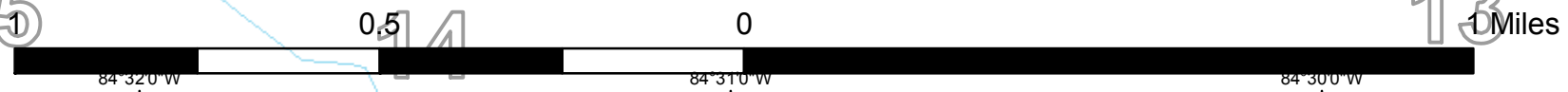
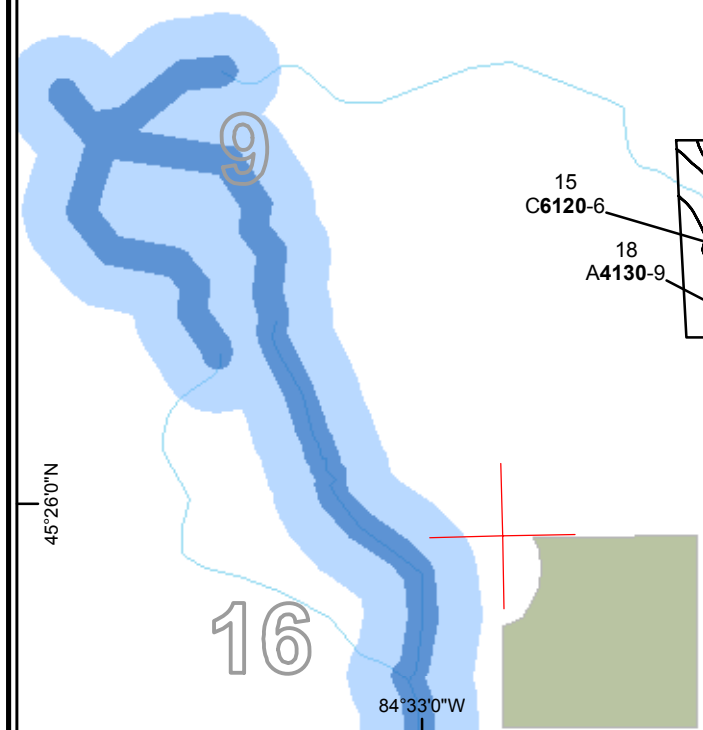
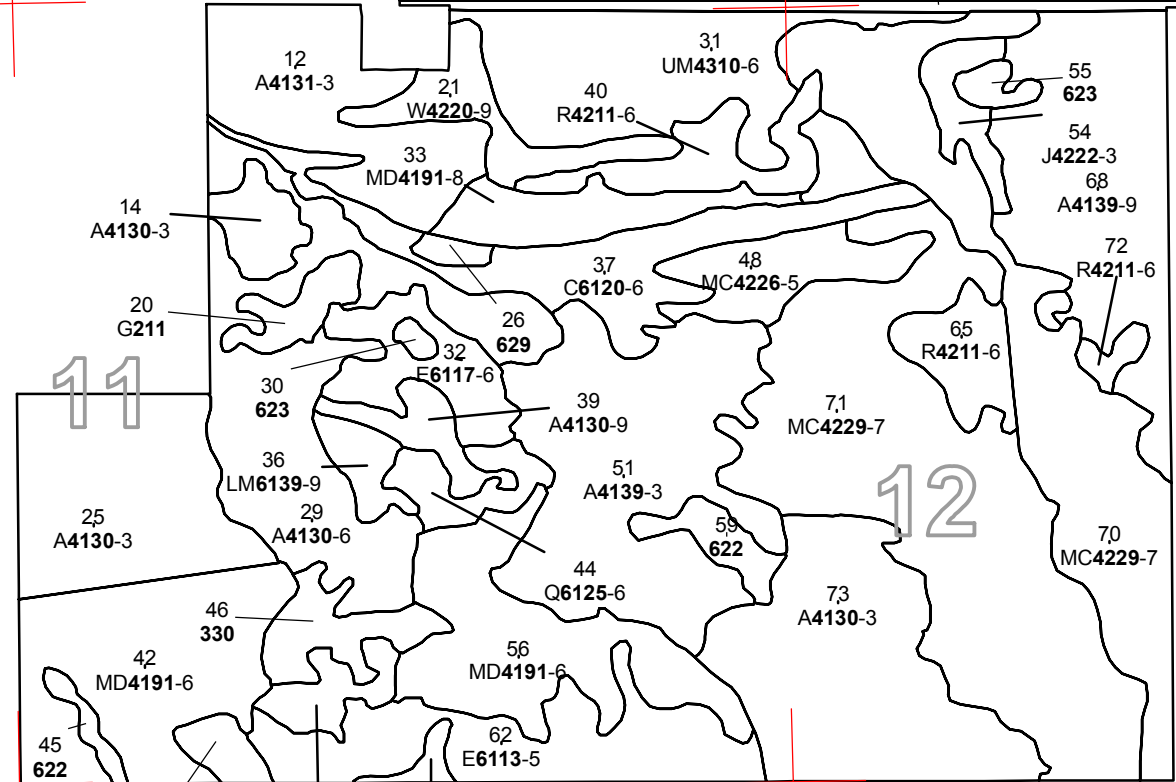
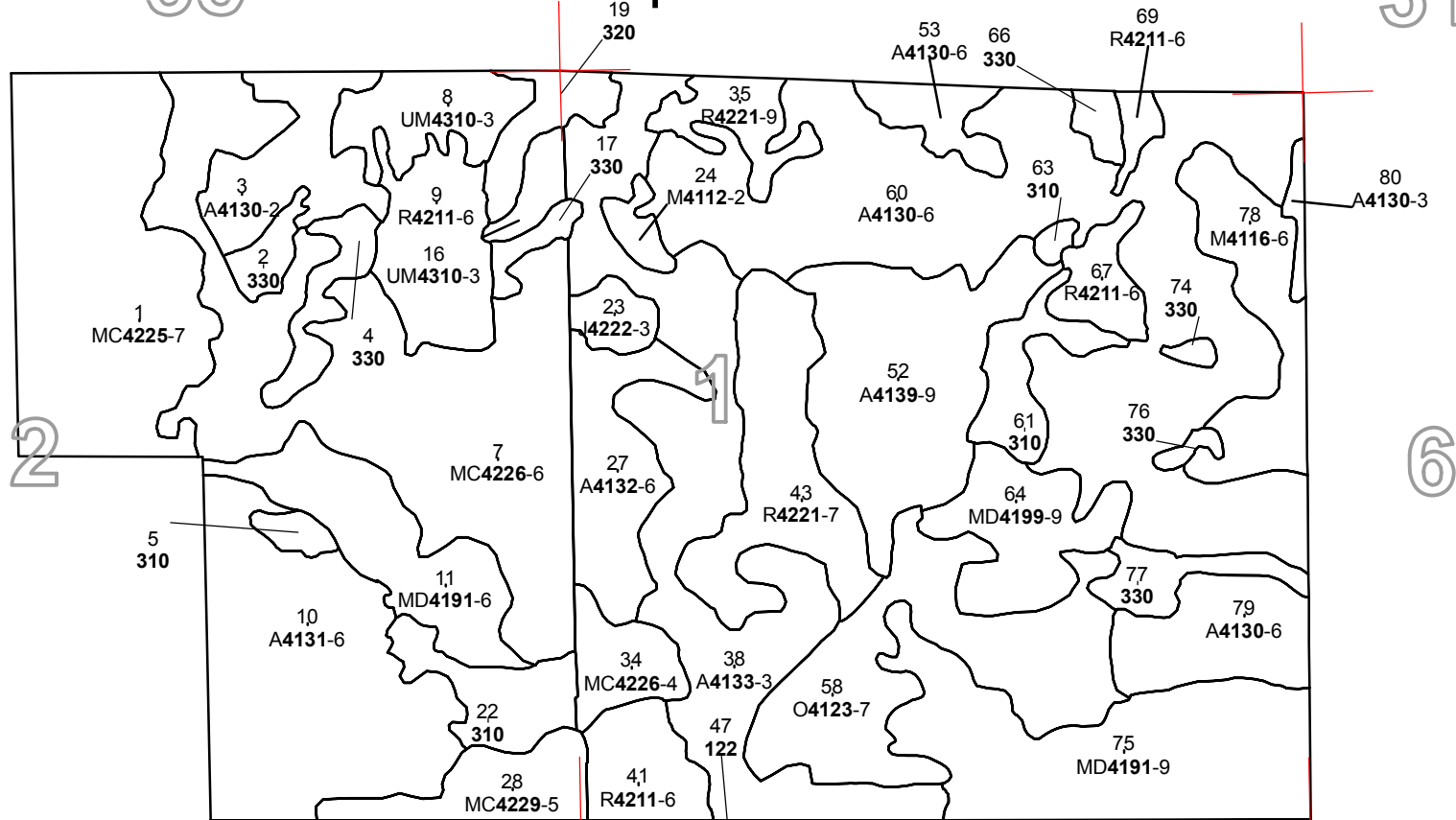
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Legend

- Miris Corners
- Cold Water Streams
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- IFMAP Special Conservation Areas
- Stands

Stand #	Stocking Density
23	
(412)0 - A7	
Level 3	OI
Level 4	Code
Cover Type Code	



33

34

35

36

31

4

2

6

10

11

12

7

16

15

14

13

18

45°27'0"N

45°26'0"N

45°27'0"N

45°26'0"N

84°33'0"W

84°32'0"W

84°31'0"W

84°30'0"W

84°29'0"W

84°33'0"W

84°32'0"W

84°31'0"W

84°30'0"W

84°29'0"W

Gaylord Mgt. Unit

Covertypes, Acres, and Age summary
(Level 3 Cover Type)

Compartment 177 Year of Entry 2010

Report Date: 06/05/2008



	Age Class															Total
	Non-Forested	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +	Uneven Age	
Aspen Types	0	116.9	123.2	105.0	319.6	0	0	57.1	0	82.7	0	0	0	0	0	804.5
Cropland	6.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.8
Emergent Wetland	4.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.2
Herbaceous Openland	31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31.0
Low-Density Trees	48.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48.7
Lowland Coniferous Forest	0	0	0	0	0	8.7	0	0	0	11.8	0	0	0	30.9	0	51.4
Lowland Deciduous Forest	0	0	0	0	0	0	36.1	16.1	0	0	0	0	0	0	0	52.2
Lowland Mixed Forest	0	0	0	0	0	0	0	6.0	0	0	0	0	0	0	0	6.0
Lowland Shrub	8.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.9
Mixed non-forested wetland	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.0
Mixed Upland Deciduous	0	0	0	0	0	30.1	0	14.8	0	63.5	47.3	61.0	0	0	0	216.8
Natural Pines	0	0	0	0	24.9	9.9	0	32.1	311.8	113.4	0	0	0	0	0	492.0
Northern Hardwood	0	4.1	0	0	0	0	0	0	0	26.2	0	0	0	0	0	30.2
Oak Types	0	0	0	0	0	0	0	0	0	55.4	0	0	0	0	0	55.4
Planted Pines	0	0	0	0	0	80.6	0	0	0	0	0	0	0	0	0	80.6
Road/Parking Lot	11.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11.9
Upland Mixed Forest	0	0	0	0	22.0	0	0	48.2	0	0	0	0	0	0	0	70.2
Upland Shrub	9.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9.6
Total	123.2	120.9	123.2	105.0	366.5	129.3	36.1	174.3	311.8	353.0	47.3	61.0	0	30.9	0	1982.4



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
7 007-North MO Aspen	57.2	42260 - Natural Pine, Mixed Deciduous	High Density Pole	74	Harvest	Clearcut	Aspen, Mixed Conifer

Rev
Cmnt: MO of aspen.

Rev Final Harvest, Leave oak and white pine for visual and mast production. Acceptable regen will be a mix of mostly aspen, with scattered jp, oak, rp, and wp. Winter cut only spec- to decrease level of scarification and promote aspen regen.

Next
Steps:

7 007-South JP MO	52.5	42260 - Natural Pine, Mixed Deciduous	High Density Pole	74	Harvest	Clearcut	Natural Jack Pine, Mixed Deciduous
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Rev
Cmnt:

Rev Final harvest, leave tree mark healthy oak (about 1 per every 2 acres) for mast production. Summer cut to help scarify soil, encouraging natural JP reproduction.

Next
Steps: Post harvest scarification evaluation.

9 009- RP 3 row	24.1	42110 - Planted Red Pine	High Density Pole	47	Harvest	Systematic Thinning	Planted Red Pine
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Rev
Cmnt:

Rev 3rd row thin, cut all JP. No retention.

Next
Steps:

28 028- CC w/res	16.0	42290 - Natural Mixed Pine	Medium Density Pole	60	Harvest	Clearcut with Reserves	Natural Red Pine, Mixed Deciduous
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Rev
Cmnt:

Rev Final harvest, leave all RP, scarify to promote natural regen to mixed pine stand. Add spec to protect advanced oak regeneration in the stand.

Next
Steps:

31 031-asp/jp fh w/res	46.1	4310 - Pine, Oak Mix	High Density Pole	65	Harvest	Clearcut with Reserves	Aspen, Jack Pine
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Rev
Cmnt: Scarify during harvest to promote natural JP repro.

Rev Final harvest, leave about 50% of the oak for mast production, leave wp for visual management. Follow retention guidelines. Summer cut only for regeneration purposes.

Next
Steps: If significant scarification was not successful during harvest ops, scarify post harvest.

**PROPOSED TREATMENTS
NO LIMITING FACTORS**



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
32 032-FH w/res	14.5	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	65	Harvest	Clearcut with Reserves	Mixed Upland Deciduous with Conifer

Rev
Cmnt:

Rev Final Harvest, exclude WP pocket near south edge of stand. Do not cut RP, WP, Oak, Cedar, Hemlock. Acceptable regen will be a mix of aspen, RM, and Balsam fir. Follow retention guidelines.
Spec

Next
Steps:

39 039-FH w/res	7.6	4130 - Aspen	High Density Log	83	Harvest	Clearcut with Reserves	Aspen
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Rev Treat with stand 32.
Cmnt:

Rev Final Harvest, leave RP, WP, Oak, ceadr, hemlock. Follow retention guidelines.
Spec

Next
Steps:

40 040- RP 3row	14.6	42110 - Planted Red Pine	High Density Pole	47	Harvest	Systematic Thinning	Planted Red Pine
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Rev
Cmnt:

Rev 3rd row thin, no need to mark rows. Retention pocket should be focused around area treated last yoe, Fissure RP.
Spec

Next
Steps:

41 041- RP 3row	14.3	42110 - Planted Red Pine	High Density Pole	47	Harvest	Systematic Thinning	Planted Red Pine
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Rev
Cmnt:

Rev 3rd row thin, no retention.
Spec

Next
Steps:

52 052- Aspen CC w/res	52.5	4139 - Aspen, Mixed Deciduous	High Density Log	82	Harvest	Clearcut with Reserves	Aspen, Oak
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Rev
Cmnt:

Rev Final Harvest, retain Oak and Pine. Follow retention guide lines.
Spec

Next
Steps:

56 056- FH w/res	39.7	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	82	Harvest	Clearcut with Reserves	Aspen
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Rev Access will be from Hackleburg road/Silver Road, across beaver Dam, along pvt.
Cmnt:

Rev Final Harvest, leaving WP, RP, Hemlock, and cedar. Follow retention guidelines.
Spec

Next
Steps:

**PROPOSED TREATMENTS
NO LIMITING FACTORS**



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
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67 067-RP 3row	9.0	42110 - Planted Red Pine	High Density Pole	47	Harvest	Systematic Thinning	Planted Red Pine
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Rev
Cmnt:

Rev 3rd row thin, no need to mark rows, no retention, small acreage.

Spec

Next

Steps:

68 068- FH w/res	57.1	4139 - Aspen, Mixed Deciduous	High Density Log	65	Harvest	Clearcut with Reserves	Aspen
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Rev
Cmnt:

Rev Final harvest, leave RP, WP, and Oak. Follow retention guidelines.

Spec

Next

Steps:

69 069- RP 3 row	3.2	42110 - Planted Red Pine	High Density Pole	47	Harvest	Systematic Thinning	Planted Red Pine
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Rev
Cmnt:

Rev 3rd row thin, no need to mark rows, no retention, small acreage.

Spec

Next

Steps:

72 072- RP 3row	3.7	42110 - Planted Red Pine	High Density Pole	47	Harvest	Systematic Thinning	Planted Red Pine
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Rev
Cmnt:

Rev 3rd row thin, no need to mark rows, no retention, small acreage.

Spec

Next

Steps:

65 65- RP 3row	11.9	42110 - Planted Red Pine	High Density Pole	47	Harvest	Systematic Thinning	Planted Red Pine
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Rev
Cmnt:

Rev 3rd row thin, no need to mark rows, leave oak in the stand. No retention.

Spec

Next

Steps:

**Total Treatment
Acreage Proposed: 423.9**

**PROPOSED TREATMENTS
WITH LIMITING FACTORS**



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Treatment Name	Acres	Stage1 Cover Type	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Page 1 of 1
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Limiting Factor
and Comment:

Rev
Cmnt:

Rev
Spec:

Next
Steps:

No Treatment
Reason

**Total Treatment
Acreage Proposed: 0**



PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

Inventory Method: IFMAP

Stand	SCA Name	Acres	Comments
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DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.